IEEE-SA Standards Board
Meeting Minutes
26 March 2015
Austrian Electrotechnical Association (OVE), Vienna, Austria

Attendees:

Chair:
John Kulick

Vice Chair:
Jon Rosdahl

Past Chair:
Rich Hulett

Secretary:
Konstantinos Karachalios

Members:
Ted Burse
Stephen Dukes [TAB Rep.]
Jean-Philippe Faure
Travis Griffith
Gary Hoffman
Michael Janezic
David Law
Hung Ling
Andrew Myles
Ted Olsen
Glenn Parsons
Ron Petersen
Annette Reilly
Steve Shellhammer
Adrian Stephens
Yatin Trivedi
Philip Winston
Don Wright
Yu Yuan
IEEE-SA Standards Board Meeting Minutes – March 2015

Daidi Zhong

Jim Matthews, IEC Liaison

**Members Absent:**
Masayuki Ariyoshi
Joe Koepfinger, Member Emeritus
Dick DeBlasio, DOE Liaison

**IEEE Staff:**
Kim Breitfelder (part-time via phone)
Matthew Ceglia
Tom Compton
Karen Evangelista
Mary Ellen Hannzt
Yvette Ho Sang
Karen Kenney
Mary Lynne Nielsen
Moira Patterson
Dave Ringle, Recording Secretary
Rudi Schubert
Sam Sciacca
Norman Shaw (part-time via phone)
Lisa Weisser

**IEEE Outside Legal Counsel:**
Claire Topp

**Guests:**
Osama Aboul-Magd
Christian Gabriel
Michel Goudelis
Matthew Heim
Daniel Hermele
Thomas Koshy
Bruce Kraemer
Xiaohui Liu
Mike Seavey
Elisabeth Stampfl-Blaha
Mehmet Ulema, ComSoc/ComSoc Standards Board Liaison
Richard Valenta
Diego Vicentin
Yingli Wen
Francesco Zacca
1 **Call to Order**

Chair Kulick called the meeting to order at 9:02 a.m. There was a round of introductions by all present.

Chair Kulick welcomed Christian Gabriel (Managing Director of OVE Austrian Electrotechnical Committee).

Chair Kulick welcomed Elisabeth Stampfl-Blaha (ISO Vice President-Technical Management and ASI Managing Director).

2 **Agenda**

2.1 Approval of Agenda

There was a motion to approve the agenda. The motion was unanimously approved.

2.2 Consent Agenda

2.2.1 Approval of 10 December 2014 SASB Meeting Minutes

2.2.2 AudCom Recommendations

**Accepted (standards work authorized):**

- C/PA Computer Society/Portable Applications
- NTC/SC Nanotechnology Council/Standards Committee
- SASB/SCC14 SASB Standards Coordinating Committee 14/Quantities, Units, and Letter Symbols
- SASB/SCC20 SASB Standards Coordinating Committee 20/Test and Diagnosis for Electronic Systems

**Visibly Under Development (standards work authorized):**

- SASB/SCC22 SASB Standards Coordinating Committee 22/Power Quality

2.2.3 ICCom Recommendations

Revised Industry Connections Activity

**IC13-002 Electric Vehicle Wireless Power Transfer**

Revised ICAID: https://ieee-sa.centraldesktop.com/p/eAAAAAAAFAvkAAAAAEIf04

*Recommendation: Approve*

**IC13-001 IEEE-SA Symposium on EDA Interoperability**

Revised ICAID: https://ieee-sa.centraldesktop.com/p/eAAAAAAAFAvmAAAAADei5t4
**Recommendation: Approve**

Terminated Industry Connections Activity

**IC12-005 Smart Energy Data Repository**

*Recommendation: Approve request to terminate*

**IC12-007 Systems and Components for Energy Routers**

*Recommendation: Approve request to terminate*

**IC13-008 Next Generation Ethernet Passive Optical Network (NG-EPON)**

*Recommendation: Approve request to terminate*

2.2.4 NesCom Recommendations

**Withdrawal Requests**

IEEE Computer Society/Microprocessor Standards Committee

**P1722a**

IEEE Standard for Layer 2 Transport Protocol for Time Sensitive Applications in a Bridged Local Area Network Amendment 1 – Extensible Streaming Formats

*Recommendation: Approve PAR withdrawal*

IEEE Communications Society/Standards Development Board

**P1652a**

IEEE Standard for the Application of Free Field Acoustic Reference to Telephony Measurements Amendment a: Updated Diffuse Field Graph and Tables

*Recommendation: Approve PAR withdrawal*

**Modified PARs**

IEEE Engineering in Medicine and Biology Society/Standards Committee

**P1847**

Recommended Practice for Common Framework of Location Services (LS) for Healthcare

*Recommendation: Approve modified PAR*

IEEE Instrumentation and Measurement Society/TC4 – High Frequency Measurement

**P378**

Recommended Practices for Scattering Parameter Measurements Using Network Analyzers

*Recommendation: Disapprove modified PAR*
IEEE Power and Energy Society/Stationary Batteries Committee

**P946**
Recommended Practice for the Design of DC Power Systems for Stationary Applications

*Recommendation: Approve modified PAR*

IEEE Power and Energy Society/Transformers

**PC57.157**
Conducting Functional Life Tests on Switch Contacts Used in Insulating Liquid Filled Transformers

*Recommendation: Approve modified PAR*

**Extension Requests**

IEEE Power and Energy Society/Substations

**P1821**
Guide for Usage of Design Tools for Power Electronic Building Blocks (PEBB) and PEBB Based Systems

*Recommendation: Approve request for an extension until December 2016*

**NEW PARs**

IEEE-SA Board of Governors/Corporate Advisory Group

**P1863**
Guide for Overhead AC Transmission Line Design

*Recommendation: Approve new PAR until December 2019*

IEEE Computer Society/Design Automation

**P1735-2014/Cor 1**
Recommended Practice for Encryption and Management of Electronic Design Intellectual Property (IP) – Corrigendum 1: Correction to Rights Digest Description

*Recommendation: Approve new PAR until December 2019*

IEEE Computer Society/LAN/MAN Standards Committee

**P802.3bz**
Standard for Ethernet Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation

*Recommendation: Approve new PAR until December 2019*
P802.11ay
Standard for Information Technology – Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks – Specific Requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications – Amendment: Enhanced Throughput for Operation in License-Exempt Bands above 45 GHz
Recommendation: Approve new PAR until December 2019

P802.15.3e
Standard for Information Technology – Local and Metropolitan Area Networks – Specific Requirements – Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Rate Wireless Personal Area Networks (WPAN)
Amendment: High-Rate Close Proximity Point-to-Point Communications
Recommendation: Approve new PAR until December 2019

IEEE Computer Society/Voting Systems Standards Committee

P1622.7
Standard for Electronic Pollbook Data Interchange Format
Recommendation: Approve new PAR until December 2019

IEEE Consumer Electronics Society/Standards Committee

P3030
Standard for Consumer 3D Printing: Overview and Architecture
Recommendation: Approve new PAR until December 2019

IEEE Computational Intelligence Society/Standards Committee

P1849
Standard for XES – eXtensible Event Stream – for Achieving Interoperability in Event Logs and Event Streams
Recommendation: Approve new PAR until December 2019

IEEE Communications Society/Power Line Communications

P1901.2a
Standard for Low-Frequency (less than 500 kHz) Narrowband Power Line Communications for Smart Grid Applications Amendment to IEEE Standard 1901.2-2013 Standard for Low-Frequency (less than 500 kHz) Narrowband Power Line Communications for Smart Grid Applications
Recommendation: Approve new PAR until December 2019

IEEE Communications Society/Standards Development Board

P1912
Standard for Privacy and Security Architecture for Consumer Wireless Devices

**Recommendation:** Conditionally approve new PAR until December 2019; contingent upon adding 802.1X to section 7.1 and providing an explanation of the similarities.

IEEE Engineering in Medicine and Biology Society/IEEE 11073 Standards Committee

**P11073-10426**
Health Informatics – Personal Health Device Communication – Device Specialization – Personal Respiratory Therapy Equipment

**Recommendation:** Approve new PAR until December 2019

**P11073-10427**
Health Informatics – Personal Health Device Communication – Device Specialization – Monitoring Power Status of Critical Care Devices Equipment

**Recommendation:** Approve new PAR until December 2019

IEEE Industry Applications Society/Petroleum & Chemical Industry

**P45.4**
Recommended Practice for Electrical Installations on Shipboard – Marine Sectors and Mission Systems

**Recommendation:** Approve new PAR until December 2019

IEEE Power and Energy Society/Nuclear Power Engineering

**P2420**
Standard Criteria for Combustion Turbine Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations

**Recommendation:** Approve new PAR until December 2019

IEEE Power and Energy Society/Power System Relaying

**P61850-9-3**
Precision Time Protocol Profile for Power Utility Automation

**Recommendation:** Defer new PAR until the next NesCom meeting

IEEE-SASB Coordinating Committees/SCC42 – Transportation

**P2040**
Standard for Connected, Automated and Intelligent Vehicles: Overview and Architecture

**Recommendation:** Conditionally approve new PAR until December 2019; contingent upon deleting part of the last sentence in section 5.2 and adding explanatory text about section 5.2 in section 8.1 with the reference to 5.2.
P2040.1
Standard for Connected, Automated and Intelligent Vehicles: Taxonomy and Definitions
Recommendation: Conditionally approve new PAR until December 2019; contingent upon adding explanatory text about section 5.2 in section 8.1 with the reference to 5.2.

P2040.2
Standard for Connected, Automated and Intelligent Vehicles: Testing and Verification
Recommendation: Defer new PAR until the next NesCom meeting

PARs for the Revision of Standards

IEEE Aerospace and Electronic Systems Society/Radar Systems Panel

P686
Standard Radar Definitions
Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Communications Society/Standards Development Board

P1904.1
Standard for Service Interoperability in Ethernet Passive Optical Networks (SIEPON)
Recommendation: Conditionally approve PAR for the revision of a standard until December 2019; contingent upon adding the reference to section 7.4 back into section 8.1.

IEEE Power and Energy Society/Electric Machinery

P11
Standard for Rotating Electric Machinery for Rail and Road Vehicles
Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Power and Energy Society/Nuclear Power Engineering

P384
Standard Criteria for Independence of Class 1E Equipment and Circuits
Recommendation: Approve PAR for the revision of a standard until December 2019

P741
Standard Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations
Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Power and Energy Society/Transmission and Distribution

P1159
Recommended Practice for Monitoring Electric Power Quality
Recommendation: Approve PAR for the revision of a standard until December 2019

IEEE Power and Energy Society/Transformers

PC57.12.10
Standard Requirements for Liquid-Immersed Power Transformers
Recommendation: Approve PAR for the revision of a standard until December 2019

PC57.12.44
Standard Requirements for Secondary Network Protectors
Recommendation: Approve PAR for the revision of a standard until December 2019

PC57.105
Guide for Application of Transformer Connections in Three-Phase Electrical Systems
Recommendation: Approve PAR for the revision of a standard until December 2019

PC57.109
Guide for Liquid-Immersed Transformers Through-Fault-Current Duration
Recommendation: Approve PAR for the revision of a standard until December 2019

2.2.5 RevCom Recommendations

NEW

P80-2013/Cor 1/Draft 3 (PE/SUB) Guide for Safety in AC Substation Grounding – Corrigendum 1

Recommendation: APPROVE

P1547.1a/Draft 5 (SASB/SCC21) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems Amendment 1
Recommendation: APPROVE

**P1789/Draft 3 (PEL/SC)** Recommended Practices of Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers

Recommendation: APPROVE


Recommendation: APPROVE

**P3333.1.1/Draft 2 (C/SAB)** Standard for the Quality of Experience (QoE) and Visual Comfort Assessments of Three Dimensional (3D) Contents Based on Psychophysical Studies

Recommendation: APPROVE

**P26531/Draft 2 (C/S2ESC)** Standard for Systems and Software Engineering – Content Management for Product Life-Cycle, User, and Service Management Documentation

Recommendation: APPROVE

**PC57.153/Draft 10.2 (PE/TR)** Guide for Paralleling Regulating Transformers

Recommendation: APPROVE

**REVISION**

**P1671.5/Draft 09 (SASB/SCC20)** Standard for Automatic Test Markup Language (ATML) Test Adaptor Description

Recommendation: APPROVE

**P1671.6/Draft 10 (SASB/SCC20)** Standard for Automatic Test Markup Language (ATML) Test Station Description

Recommendation: APPROVE


Recommendation: APPROVE
P15289/Draft 3 (C/S2ESC) Systems and Software Engineering – Content of Life-Cycle Information Products (Documentation)

Recommendation: APPROVE


Recommendation: APPROVE

PC37.14/Draft 14 (PE/SWG) Standard for DC (3200 V and below) Power Circuit Breakers Used in Enclosures

Recommendation: APPROVE

PC37.20.1/Draft 7.0 (PE/SWG) Standard for Metal-Enclosed Low Voltage (1000 Vac and Below, 3200 Vdc and Below) Power Circuit Breaker Switchgear

Recommendation: APPROVE

3  Appointment of the SASB Vice Chair

There were three candidates who had been nominated and accepted the nomination: Jean-Philippe Faure, Jon Rosdahl, and Don Wright.

The SASB conducted a ballot. A runoff ballot between Jon Rosdahl and Don Wright occurred.

Jon Rosdahl was appointed as the SASB Vice Chair.

4  Legal Update

4.1  SASB Responsibilities

Claire Topp, outside counsel to the IEEE, reported.

5  IEEE-SA Managing Director’s Report

Konstantinos Karachalios, IEEE-SA Managing Director, reported.

6  SASB Standing Committee Reports

6.1  Audit Committee (AudCom)

Jean-Philippe Faure, AudCom Chair, reported.

6.2  Industry Connections Committee (ICCom)
Yatin Trivedi, ICCom Chair, reported.

6.3 New Standards Committee (NesCom)

Philip Winston, NesCom Chair, reported.

6.4 Patent Committee (PatCom)

David Law, PatCom Chair, reported.

6.5 Procedures Committee (ProCom)

Jon Rosdahl, ProCom Chair, reported.

Don Wright, Acting ProCom Chair, also reported.

The following P&P change was recommended by ProCom for SASB approval consideration:
- Proposed Change to SASB OpMan RE: Comment handling

**Action Item: Dave Ringle to initiate a 30-day email ballot**

The following P&P change was recommended by ProCom for SASB approval consideration:

**IEEE-SA Standards Board Operations Manual**

**5.4.5 Comments received as a result of an IEEE Public Review**

Upon the opening of the initial Sponsor ballot, an IEEE Public Review shall start and last for 60 days. Any person may purchase the initial ballot draft for information only, and have the ability to submit public review comments on said draft without vote. All public review comments and responses shall be submitted electronically through the IEEE Standards Association public review tools.

All public review comments received during an IEEE Public Review shall be considered by the Sponsor and a response shall be provided to the commenter. If the response indicates that a change is to be made to the draft, the commenter is entitled to receive a copy of the revised draft from the Sponsor upon request.

**The SASB unanimously approved the P&P change.**

The following P&P change in yellow highlight was recommended by ProCom for SASB approval consideration:

**IEEE-SA Standards Board Operations Manual**

2. Related documents


*IEEE-SA Standards Board Bylaws.*

**JSA Template**

PAR Form.


*IEEE Standards Style Manual.*


### 3. Abbreviations and acronyms

**AdCom:** IEEE-SA Standards Board Administrative Committee

**ANSI:** American National Standards Institute

**ASC:** ANSI Accredited Standards Committee

**AudCom:** IEEE-SA Standards Board Audit Committee

**IEEE:** Institute of Electrical and Electronics Engineers

**JSA:** Joint Sponsorship Agreement

**NesCom:** IEEE-SA Standards Board New Standards Committee

**PAR:** Project Authorization Request

**PatCom:** IEEE-SA Standards Board Patent Committee

**ProCom:** IEEE-SA Standards Board Procedures Committee

**RevCom:** IEEE-SA Standards Board Standards Review Committee

**SASB:** IEEE-SA Standards Board

**SCC:** Standards Coordinating Committee

**SDO:** Standards-Developing Organization

**TC:** Technical Committee

**WG:** Working Group
5.1.2.2 Co-sponsored projects

For projects that are co-sponsored, the parties shall identify a primary Sponsor and other co-sponsors shall be indicated on the PAR; project oversight will be performed using the P&P of the primary Sponsor’s P & P are used for the project. Project oversight will be performed by the Primary Sponsor.

After a PAR has been approved, the addition/deletion of a co-sponsor or a change of the primary Sponsor requires the submission of a Modified PAR. Any co-sponsor may withdraw from the project at any time without unanimous approval of the project’s sponsors prior to submission of the Modified PAR. A change to the primary Sponsor requires the unanimous approval of the project’s sponsors prior to submission of the Modified PAR.

Unanimous approval of the project’s sponsors is required in order to withdraw a co-sponsored project. The primary Sponsor has the right of first refusal to revive the withdrawn project. In addition, the parties shall complete and sign a pro-forma Joint Sponsorship Agreement (JSA) that addresses the following:

- Dissolution of the co-sponsorship
- Ownership after the initial project is complete
- Responsibilities for maintenance, corrigenda, and amendments
- Secondary Sponsor’s access to pre-ballot drafts
- WG participation privileges of Secondary Sponsor’s participants
- Reassignment of PAR from one co-sponsor to another

The JSA shall be made available to NesCom at time of PAR submittal and shall be made available for any PAR modification or RevCom submittal. The JSA will be made available to WG participants in a manner similar to other project documents (e.g., WG P & P).

Requests to update a co-sponsored document via an amendment or corrigendum shall be submitted to the primary Sponsor; the primary Sponsor is required to seek concurrence of all co-sponsors in the decision of whether or not to submit a PAR to address a requested update.

In addition to Working Group members, the administrative committee (AdCom) or the executive committee (ExCom) of each co-sponsor shall have access to pre-Sponsor-ballot drafts.

There was a motion to enact the amendments shown in blue highlight. The motion to amend was approved. [Vote: Yes=13; No=7; Abstain=2]

The SASB approved the P&P change with an effective date of 1 April 2015. [Vote: Yes=20; No=2 (Rosdahl, Winston)]

The following P&P change was recommended by ProCom for SASB approval consideration:
- Proposed Change to SASB OpMan RE: Draft distribution

Action Item: Dave Ringle to initiate a 30-day email ballot

The following P&P change was recommended by ProCom for SASB approval consideration:

IEEE-SA Standards Board Operations Manual
5.4.3.1 Ballot term

Each ballot in the standards balloting process shall close at 11:23:59 p.m. ET UTC-12[^4] on the closing date specified on the ballot. The length of the ballot and associated recirculations is set by the Sponsor. The initial ballot term shall be at least 30 days in duration. The recirculation ballot term shall be at least 10 days in duration.

The Sponsor shall assess the return rate of the first ballot, where the return is the ratio of the sum of Sponsor balloting group members' Approve, Do Not Approve, and Abstain votes to the count of Sponsor balloting group members.

In the first ballot, if the ballot has not achieved a 75% return by the specified closing date, the ballot may be extended to close when a 75% return is received. This extension for receipt of a 75% return shall not be longer than 60 days.

**Footnote:**
[^4]: ET UTC is Coordinated Universal Time in New York City, New York, USA

The SASB approved the P&P change. [Vote: Yes=18; No=3 (Hoffman, Myles, Rosdahl); Abstain=1 (Stephens)]

6.6 Standards Review Committee (RevCom)

Ted Burse, RevCom Chair, reported.

7 Standards Coordinating Committee Reports

7.1 SCC Coordinator’s Report

Yu Yuan, SCC Coordinator, reported.

There was a motion to accept the submitted reports from SCC4, SCC20, and SCC22. The motion was unanimously approved.

7.2 Scheduled Reports Due in March:
7.2.1 SCC04 – Electrical Insulation (Paulette Payne Powell)

7.2.2 SCC20 – Test and Diagnosis for Electronic Systems (Mike Seavey)

Mike Seavey, SCC20 Chair, reported.

7.2.3 SCC22 – Power Quality (Theo Laughner)

8 Liaison Reports

8.1 IEC Report

Jim Matthews, IEC Liaison, reported.
8.2 NIST Report

Michael Janezic, NIST Liaison, reported.

9 Informational Reports
9.1 CAG Report

Glenn Parsons, CAG Liaison, reported.

9.2 IEEE-SA President’s Report

Bruce Kraemer, IEEE-SA President, reported.

9.3 SASB Chair’s Report

Chair Kulick reported.

Chair Kulick thanked ASI and OVE for their hospitality.

There was a motion:
• WHEREAS Ted Olsen is a current member of the IEEE-SA Standards Board; and
• WHEREAS 2015 is the 50th anniversary of Ted Olsen joining the IEEE as a member; and
• WHEREAS Ted Olsen has served in the IEEE Switchgear Standards Committee as a volunteer and officer for over 20 years; and
• WHEREAS Ted Olsen has served the IEEE Standards Association in its governance bodies for over 10 years; and
• The IEEE-SA Standards Board takes note of this prestigious anniversary and salutes Ted Olsen for his many years of service and devotion to the IEEE and the IEEE Standards Association.

The motion was approved by acclamation; and a round of applause.

10 New Business
10.1 Sponsor Annual Financial Reporting

Karen Kenney, Senior Director - Business Operations, Administration, and Governance, reported.

10.2 IEEE-SA Awards

Don Wright, ArCom Chair, reported.

10.3 IEEE-SA and XML
This item was time-specific and occurred at 3:00 p.m.

Kim Breitfelder (Senior Manager, Content Production & Management) and Norman Shaw (Director, New Opportunities) reported via phone.

11 **Upcoming Meetings**

11.1 There is a teleconference meeting scheduled for mid-June 2015.

*Action Item: Dave Ringle to send a doodle poll to set the exact date and time.*

11.2 There is a face-to-face meeting scheduled for 3 September 2015 in Tokyo, Japan.

12 **Request for information from 802.11**

*Executive Session*

Prior to the beginning of Executive Session, Dan Hermele (Qualcomm) summarized the request presented to PatCom. A request was made to have the SASB ask PatCom to consider the substance of the free-form LoA.

*The SASB entered Executive Session at 3:43 p.m.*

*Attendees: SASB Members, BOG Members, legal counsel to the IEEE, IEEE-SA Senior staff, IEEE-SA Governance staff, and Yvette Ho Sang.*

*Not present in Executive Session discussion: Faure, Kraemer, Law, Ling, Myles, Parsons, Rosdahl, Shellhammer, Stephens, and Wright.*

*Executive Session ended at 5:18 p.m.*

13 **SASB Resolutions**

If PatCom or the SASB becomes aware of an asserted potential essential patent claim for which an Accepted LoA (on the IEEE-SA Standards Board approved patent letter of assurance form) is not on file, the information will be shared with the relevant Sponsor(s) and Working Group.

The participants in the development of the standards project at issue should be cognizant of the fact that there is not such an Accepted LoA on file, and that the SASB will take that fact into account when determining whether or not to approve a standard. Accordingly, such participants may wish to consider alternative technologies.
In addition, the SASB reserves the right to withdraw an approved standard should it be determined that market implementation is being hindered by the assertion of essential patent claims in the absence of an Accepted LoA.

The IEEE-SA Standards Board directs PatCom to create an FAQ addressing the above resolution.

Any future requests to PatCom for consideration of whether the IEEE-SA Standards Board should approve P802.11ah notwithstanding the fact that there is an asserted potential essential patent claim for which an Accepted LoA (on the IEEE-SA Standards Board approved patent letter of assurance form) is not on file shall be referred to the IEEE-SA Standards Board.

14 Adjournment

There being no further business, the meeting was adjourned at 5:19 p.m.